WEST

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L33: Entry 27 of 27

File: DWPI

Dec 15, 1998

DERWENT-ACC-NO: 1999-099792

DERWENT-WEEK: 199909

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TITLE: Vibratory filling equipment for moulding <u>sand</u> for lost <u>foam</u> casting - has attachment height <u>position</u> of excitation motors and clamps set at <u>centre of gravity position</u> of flask <u>filled with pattern</u> and moulding <u>sand</u>

PATENT-ASSIGNEE:

ASSIGNEE CODE ISUZU MOTORS LTD ISUZ

PRIORITY-DATA: 1997JP-0140213 (May 29, 1997)

PATENT-FAMILY:

 PUB-NO
 PUB-DATE
 LANGUAGE
 PAGES
 MAIN-IPC

 JP 10328783 A
 December 15, 1998
 N/A
 006
 B22C015/10

APPLICATION-DATA:

PUB-NO APPL-DATE APPL-NO DESCRIPTOR

JP10328783A May 29, 1997 1997JP-0140213 N/A

INT-CL (IPC): B22C 15/10

ABSTRACTED-PUB-NO: JP10328783A

BASIC-ABSTRACT:

NOVELTY - The attachment height position of excitation motors (16) and clamps (8) on vertical walls (7a,7b) of a support (6) is fixed equal to the height of centre of gravity position (19) of a flask (3) filled with loss foam pattern (1) and moulding sand (2).

DETAILED DESCRIPTION - A lost foam pattern (1) and molding $\underline{\operatorname{sand}}$ (2) are accommodated in the molding flask (3) mounted on a support. The flask is clamped from both sides by clamps (8) provided on the right and left vertical walls (7a,7b) of a support (6). The vertical walls of the support are respectively equipped with excitation motors (16).

USE - For filling moulding sand in lost foam casting.

ADVANTAGE - The height position difference from the centre of gravity position (19) of the flask to the vibratory point of the motors and clamps becomes zero. A uniform circular motion of the molding sand is securable corresponding to frequency of excitation motors in the flask since relative shake between the flask and the vibratory point becomes small. The rigidity of the flask need not be enhanced. Cost reduction can be achieved. A high holding capacity can be demonstrate d with simple clamps. DESCRIPTION OF DRAWING(S) - The drawing explains the plan (a) and the side view (b) of the oscillation molding sand filling equipment. (1) Lost form pattern; (2) Molding sand; (3) Flask; (6)

Support; (7a,7b) Vertical walls; (8) Clamp; (16) Excitation motor; (19) Centre of gravity position.

CHOSEN-DRAWING: Dwg.1/5

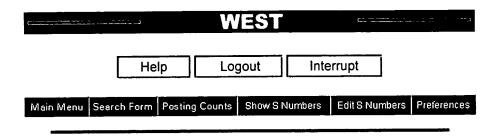
TITLE-TERMS: VIBRATION FILL EQUIPMENT MOULD SAND LOST FOAM CAST ATTACH HEIGHT POSITION EXCITATION MOTOR CLAMP SET CENTRE GRAVITY POSITION FLASK FILLED PATTERN MOULD SAND

DERWENT-CLASS: M22 P53

CPI-CODES: M22-E;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1999-029745 Non-CPI Secondary Accession Numbers: N1999-072887



Search Results -

Terms	Documents
sand and vibration and (foam or evaporative) and (grip or position or transfer) and	7
((monitor or video or camera or identify) near10 (model or foam or pattern))]

US Patents Full-Text Database US Pre-Grant Publication Full-Text Database JPO Abstracts Database **EPO Abstracts Database Derwent World Patents Index** Database: IBM Technical Disclosure Bulletins

sand and vibration and (foam or evaporative) and (grip or clamp or Refine Search: Clear position or transfer) and ((monitor

Search History

Today's Date: 6/3/2001

DB Name	Query	<u>Hit</u> Count	<u>Set</u> <u>Name</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	sand and vibration and (foam or evaporative) and (grip or position or transfer) and ((monitor or video or camera or identify) near10 (model or foam or pattern))	7	<u>L40</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	sand and vibration and (foam or evaporative) and (grip or position or transfer) and (monitor near10 pattern)	0	<u>L39</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	sand and vibration and (foam or evaporative) and (grip or position or transfer) and (align or center) and (foam or pattern) and ((video or camera or signal or monitor or identify) near10 (pattern or model))	10	<u>L38</u>
	sand and vibration and (foam or		

USPT,PGPB,JPAB,EPAB,DWPI,TDBD	evaporative) and (grip or position or transfer) and (align or center) and (foam or pattern) and (video or camera or signal or monitor or identify) near10 (pattern or model)	10 .	<u>L37</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	sand and vibration and (foam or evaporative) and (grip or position or transfer) and (align or center) and (foam or pattern) and forked	0	<u>L36</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	sand and vibration and (foam or evaporative) and (grip or position or transfer) and (align or center) and (foam or pattern) and fork	21	<u>L35</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	sand and vibration and (foam or evaporative) and (grip or position or transfer) and (align or center) near5 (foam or pattern) and fork	1	<u>L34</u>
USPT,PGPB,JPAB,EPAB,DWPI,TDBD	sand and vibration and (foam or evaporative) and (grip or position or transfer) and (align or center) near5 (foam or pattern)	27	<u>L33</u>
USPT	116 and sand and vibration and (foam or evaporative) and (grip or position or transfer) and (align or center) near5 (foam or pattern)	4	<u>L32</u>
USPT	116 and sand and vibration and (foam or evaporative) and (grip or position or transfer) and (align or center)	10	<u>L31</u>
USPT	116 and sand and vibration and (foam or evaporative) and (grip or position or transfer) and pin	3	<u>L30</u>
USPT	4612968.pn.	1	<u>L29</u>
USPT	4600046.pn.	1	<u>L28</u>
USPT	4593739.pn.	1	<u>L27</u>
USPT	4565227.pn.	1	<u>L26</u>
USPT	4544013.pn.	1	<u>L25</u>
USPT	4454906.pn.	1	<u>L24</u>
USPT	3581802.pn.	1	<u>L23</u>
USPT	3678989.pn.	1	<u>L22</u>
USPT	116 and sand and vibration and (foam or evaporative) and (grip or position or transfer)	30	<u>L21</u>
USPT	116 and sand and vibration and (foam or evaporative)	37	<u>L20</u>
USPT	116 and sand and vibration and foam	33	<u>L19</u>

USPT	116 and sand and vibration	84	<u>L18</u>
USPT	116 and sand	448	<u>L17</u>
USPT	11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 110 or 111 or 112 or 113 or 114 or 115	1555	<u>L16</u>
USPT	(((164/323)!.CCLS.))	182	<u>L15</u>
USPT ·	(((164/322)!.CCLS.))	94	<u>L14</u>
USPT	(((164/155.4)!.CCLS.))	109	<u>L13</u>
USPT	(((164/154.2)!.CCLS.))	58	<u>L12</u>
USPT	(((164/154.1)!.CCLS.))	62	<u>L11</u>
USPT	(((164/151.2)!.CCLS.))	88	<u>L10</u>
USPT	((((164/150.1)!.CCLS.))	92	<u>L9</u>
USPT	(((164/39)!.CCLS.))	61	<u>L8</u>
USPT	(((164/37)!.CCLS.))	165	<u>L7</u>
USPT	(((164/34)!.CCLS.))	356	<u>L6</u>
USPT	(((164/349)!.CCLS.))	65	<u>L5</u>
USPT	(((164/192)!.CCLS.))	123	<u>L4</u>
USPT	(((164/167)!.CCLS.))	52	<u>L3</u>
USPT	(((164/206)!.CCLS.))	106	<u>L2</u>
USPT	((164/203)!.CCLS.)	75	<u>L1</u>